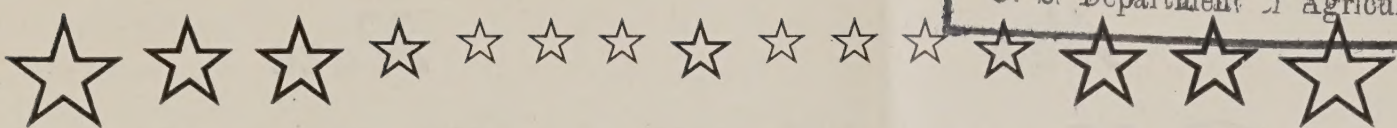


Historic, Archive Document

Do not assume content reflects current
scientific knowledge, policies, or practices.

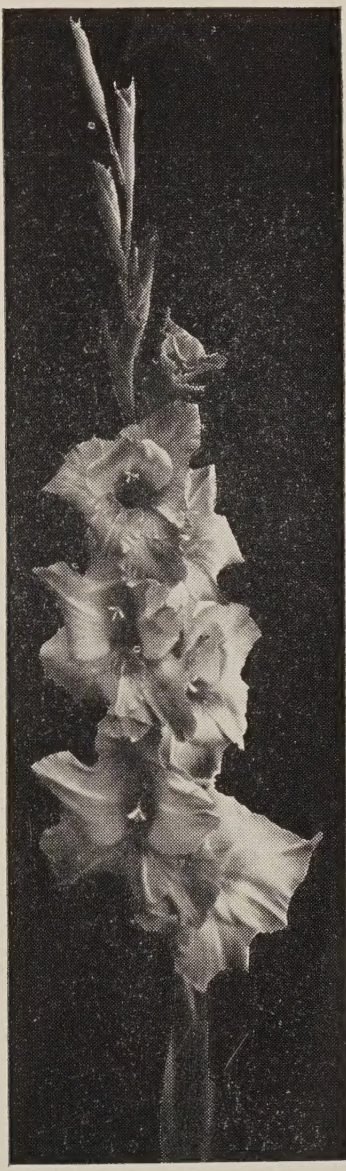
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U. S. Department of Agriculture



LINS

Outstanding Gladiolus

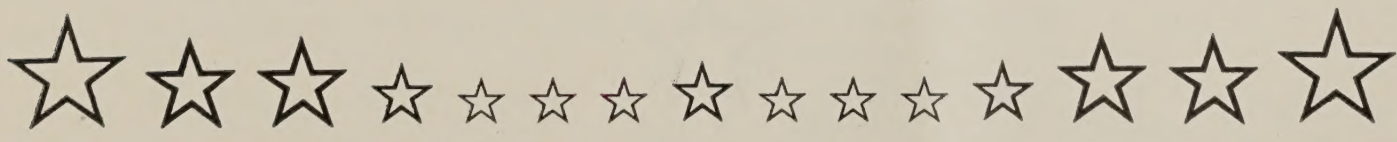


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BELTRAMI

E. H. LINS COLOGNE, MINN.



New *Rare*
GLADIOLUS
for the Fancier



STOPLIGHT
HI HAT
ROBINSON CRUSOE
NAVAHO
BLACK PANTHER
MELROSE
KENWOOD
MARQUEETA
BELTRAMI
HALLOWEEN



MANDALEEN
FIANCEE
DREAM CASTLE
MELLOWGLOW
RIO RITA
MERCURY
BLAZE
CHOCOLATE CREAM
DIXIE BELLE
MINNEWASHTA

ROBINSON CRUSOE



Stoplight (1942)

STOPLIGHT is entirely out of the trial or experimental stage.

Enthusiastic testimonials from commercial growers and gladiolus experts prove, without a doubt, that STOPLIGHT is one of the best commercial reds on the market today.

Those growers who tried it in 1944, after seeing it bloom, hastened to book as much of it as they could get.

STOPLIGHT is a perfect florists' red and has all the qualities required of a good commercial. It is a 100% cutter, makes perfect spikes from all sized bulbs. (We cut 4 ft. spikes from bulblets.)

Plants are strong and tall and stand up in field without support. Never crooks, always perfectly placed. Perfect attachment. Open ruffled bloom of heavy substance. Heat resistant. Heavy propagator of bulblets that grow easily.

As a show flower STOPLIGHT can win in its class in any show, where representative spikes are shown and you don't have to grow 50 bulbs to get 3 good spikes.

Due to its all around good qualities, the demand for STOPLIGHT will be by the millions, not thousands. Growers who get in on this now will never regret investing in STOPLIGHT bulblets to the limit.

	Large	Medium	Small	Bulblets
1.....	\$.25	\$.20	\$.10	10 for \$.25
10.....	2.00	1.60	.80	100 for 1.50
100.....	16.00	12.60	6.40	1000 for 12.00

Existing stocks are not yet large. Orders filled in order of booking as long as stock set aside for release holds out.

Excerpts from a letter dated May 16, 1944, from **Leinhart's Floral Garden, Wholesale Growers of Fancy Cut Flowers, Oviedo, Florida**: "Some 90 days or more ago, I received my order of 200 Stoplight bulbs from you. At the present time I'm cutting them, and it being out of season for glads in central Florida, must say they are as fine as I have ever seen at any time of the year. They are better than 4 ft. with nice flower heads and beautiful foliage. The Kenwood you sent me are just as fine. Have tried a lot of reds but none have done what Stoplight has. Sorry that I don't have a color film to take a color picture of these glads so you could see them, as it would do any one good. Have sold the bloom for \$2.00 and \$3.00 a dozen. Quote me on 5,000 Stoplight and Kenwood for fall delivery."

Under date of Sept. 12, 1944, they wrote: "From the 200 Stoplight bulbs, we harvested 370 bulbs and 6 qts. bulblets."

The Pheiffer Nursery, Winona, Minn., under date of Aug. 19, 1944, wrote: "We purchased 50 Stoplight bulbs from you this spring. They are now in bloom and we like it very much. It is an outstanding red with an excellent spike. We wish to increase our stock and are willing to place our order now."

Mr. Ewald Schlag, Baltimore, Maryland, Commercial grower, wrote Oct. 20, 1944: "The new glad STOPLIGHT I got from you last spring is, in my opinion, the most promising red commercial in every respect. It is truly 'STOPLIGHT'".

Topeka, Kansas, 11-9-44

"I saw your add in Florists' Review regarding Stoplight. I got your trial set this spring and will say you have really got something. The bulblets produced large bulbs mostly jumbo and the 10 No. 1 produced 19 large bulbs and I have nearly two qts. of bulblets, mostly good large ones. It is one of the best propagators I have had yet, in fact I have a pretty good start but would like more.

The florists here, whom I supply all summer, all raved about the Stoplight. I have been supplying them with and they have taken all I could grow up to 25,000 the season but will have to divide up with Stoplight now.

Joe Warner,

Grower of fine

Peonies and Gladiolus

Hi Hat (1945)

Seedling No. 3750- Rio Rita X Heritage

After watching this seedling during seven blooming seasons, I believe its good performance and ability to produce, regularly, 5 ft. spikes with very long flower heads of 20 to 22 buds, opening 6 to 8, 5½" bloom with the rest of the buds in color, warrants its introduction.

I believe it will become a good show and commercial variety. It produces large amounts of bulblets that grow easily. Color is bright orange pink. Florets are well attached and placed. Not many varieties show as much bud color as HIT HAT and NAVAHO. Large Formal Exhibition.

Any Size Bulbs.....\$2.50

Commercial Growers TRIAL SET:

5 Medium, 10 Small and 50 Bulblets for \$20.00

Not more than 20 trial sets will be released this season.

Robinson Crusoe (1944)

This was introduced last spring and if reports received from those who grew it, are an indication, ROBINSON CRUSOE will go places.

Easily builds a massive straight spike with large perfectly placed bloom of "unique" color. Base color tan, heavily MARBLED (not flecked) chocolate. Has been called the "marbled glad." Good propagator. Blooms early midseason.

Has always evoked "OHS" and "AHS" when shown as a seedling and reports indicate that it immediately catches people's eye in other gardens also as shown by excerpts from a letter received from a Doctor in Tennessee under date of Aug. 8, 1944: "Enclosed a snapshot I took of ROBINSON CRUSOE from a bulb I bought last spring. It was really a masterpiece. One would describe it as "unique" and by far the best of its kind. I can safely say that among the 50 new varieties and over 100 older varieties that I grew this year, ROBINSON CRUSOE produced more comments than any glad grown with perhaps the exception of (here he mentions a white and a yellow)"

	Large	Medium	Small	Bulblets
1.....	\$ 1.50	\$ 1.00	\$.75	2 for \$.30
10.....	12.00	8.00	6.00	10 for 1.20

Navaho (1944)

A tall vigorous grower that produces a correctly proportioned spike, opening 5-6 five-inch beautifully shaped bloom or heavy substance, with the rest of the buds in color. Color is pure unflecked red. Healthy bulbs and plants and is a good propagator.

Looks like another good show and commercial red.

Due to a slight mix in the small stock I am not offering any small stock or bts.

	Large	Medium
1.....	\$ 1.50	\$ 1.00
10.....	12.00	8.00

Melrose (1943)

American Beauty deep rose blending deeper on lower petals.

The 5-inch and larger flowers are heavily ruffled, wide open and well attached. The medium height plants produce good flower heads. Have had some with 8 open and bloom up to 6 inches, however, under a field culture 5-6 open is average. Due to its good color, there is a big demand for Melrose cutflowers. We should keep all stock for propagation purposes but will release a limited amount of bulbs. No bulblets offered this season.

	Large	Medium	Small
1.....	\$.35	\$.25	\$.15
10.....	2.80	2.00	1.20

Black Panther (1943)

Reports from fans, that Black Panther is producing massive spikes with 5½ to 6 inch bloom with 6-7 open, together with its performance here satisfy me that we have a valuable black red in BLACK PANTHER.

In my exhibit at the Minnesota State Fair, I showed a vase of Black Panther. It was interesting to note how the ladies went for this black red glad. You florists can't tell me the ladies like only the pastel colors in glads.

There are a considerable number of large glads in the light colors but not many dark glads with large WIDE OPEN FLORETS. Black Panther florets are not the usual long tubular type but are wide open.

It opens well in water as verified by an expert when he wrote: Quote "My Black Panther from you turned out fine. I had a magnificent spike. It opens well in water, a faculty, I find, few blacks have.

After this fall's digging I am safe in saying that Black Panther is a good propagator. Even the large bulbs had good quantities of bulblets and the smaller stock was loaded with bulblets.

A professional grower and cataloger, who has grown just about all the varieties on the market, wrote me that Black Panther is the only black red in the 500 class over 5½".

	Large	Medium	Small	Bulblets
1.....	\$ 1.50	\$ 1.00	\$.75	10 for \$ 1.50
10.....	12.00	8.00	6.00	100 for 12.00

Beltrami (1943)

The wide open, ruffled and fluted florets of BELTRAMI are large but refined, The lower florets of the spike, shown in this catalog, were 6 inches across. The plants are tall and build correctly proportioned flower heads, opening around 5-6 florets in field. The color varies depending on soil or season. In some soils it comes deep rose mulberry, in others it is shimmering light golden brown with a slight deeper Picardy throat. A seedling of Picardy and Koehl. Blooms early midseason and is a good propagator. Large informal type. This is a beautiful glad in every way. Most people who tried Beltrami like it a lot.

	Large	Medium	Small	Bulblets
1.....	\$.20	\$.15	\$.10	10 for \$.20
10.....	1.60	1.20	.80	100 for 1.60
				1000 for 12.00

Marqueeta (1943)

The ruffled beautifully formed, 5 to 5½ inch florets are light orange, blending to a lighter throat with small orange red mark. Plants are tall 50 to 55 inches. Has a good long flower head, opening around 5-6 bloom in field. Has healthy bulbs and plants and is a good propagator. Have received very fine reports from growers and fans. One of my very best cutflowers. Has not made any stubby spikes for me.

Some people have called this an orange Beaton. My experience with this together with favorable reports from others, convinces me that Marqueeta will become a popular all around variety. Midseason bloomer. Large informal type.

Earl F. Ward, Niles, Ohio, Septemeber 9, 1944, wrote: "I planted Marqueeta and Kenwood May 29th and they bloomed August 22. I had more compliments on Marqueeta than on anything else that I had. Lovely color and some said the form resembles an orchid. It was the best spike I had and I had some nice Corona too. The one spike of Kenwood was extra good. Best colored red I have seen. Recurved petals and color purity are perfect."

	Large	Medium	Small	Bulblets
1.....	\$.30	\$.20	\$.15	10 for \$.30
10.....	2.40	1.60	1.20	100 for 2.40

Bulblets sold only at 10 or 100 rate

Kenwood (1943)

Some people like various colors or shades in one floret, others prefer monotones. **KENWOOD** is an absolute monotone pure red. There is not even a faint suggestion of a deeper or lighter shade of red. Plants are very tall and strong with good long flower heads. Opens around 6 five to 5½ inch plain petaled florets (have had some up to 7). Good florist red. Fine propagator. Opens well in water when cut in tight bud.

D. A. Chrichton, Great Falls, Montana, Feb. 2, 1944, wrote: "Kenwood and Stoplight are two of the best reds I have ever seen. No reds that I know of at the present time could have been better than these two were last summer."

Mrs. Burt Elliott Eaton, Rochester, Minn., Sept 18, 1944, wrote: "I had three wonderful five foot spikes of Kenwood this years. Also Mercury was very fine and Mellowglow and Melrose were again excellent."

	Large	Medium	Small	Bulblets
1.....	\$.35	\$.25	\$.15	10 for \$.35
10.....	2.80	2.00	1.20	100 for 2.80
100.....	9.60	1000 for 22.00

Mandaleen (1943)

I have never had a crooked spike nor a spike with misplaced florets of Mandaleen. The color of the flat, ruffled, perfectly attached 5" florets is pure unflecked shimmering warm light pink, blending creamy throat touched with yellow. Florets have heavy substance. Is a good propagator, has healthy plants and bulbs.

Commercial growers should try this under their conditions. Has done well in Florida where it was referred to as a clean throated lighter Picardy.

	Large	Medium	Small	Bulblets
1.....	\$.35	\$.25	\$.15	10 for \$.35
10.....	2.80	2.00	1.20	100 for 2.80

Fiancee (1943)

This is an early blooming very light pink with a large conspicuous white throat, that reminds one of that beautiful variety Sweetheart. The florets of this variety, however, are larger and the plants are taller. Large informal type. Where this is happy, it is one of the sweetest glads and doubly welcome because it is early.

	Large	Medium	Small	Bulblets
1.....	\$.35	\$.20	\$.10	10 for \$.35
10.....	2.80	1.60	.80	100 for 2.80

Halloween (1943)

Large brilliant deep orange blending to orange red Picardy throat, which makes the flower seem orange red. Produces fine plants with good flower heads, usually opening 5-6 five inch and over blooms. One grower wrote that this performs for him like Picardy used to. Blooms early midseason, is a good propagator and makes saleable spikes from even No. 4 bulbs.

It's unflecked brilliant color reminds one of Phitzer's Triumph but Halloween has heavy substance and strong stems. This large informal is one of our early cutflowers and commercial growers should try it. An all around good variety.

	Large	Medium	Small	Bulblets
1.....	\$.20	\$.15	\$.10	10 for \$.20
10.....	1.60	1.20	.80	100 for 1.60
				1000 for 12.00

Dream Castle (1943)

This is the type of glad one dreams about but seldom finds. The spikes are just about all perfect. Easily opens 8 or more perfectly placed and correctly spaced, well attached ruffled florets of heavy substance on always straight precise spikes. Color is clean warm coral pink blending to lighter heart. Medium formal exhibition. Late midseason bloomer and a good propagator. Was awarded the AMERICAN HOME

ACHIEVEMENT MEDAL; FIRST CLASS CERTIFICATE. Seven judges scored it 90 plus. Is an easy cutter, spikes can be snapped out easily without any injury to the plants.

Have had excellent reports on this. Excerpts from a letter received from the Gladhaven Gardens, Inglewood, California, October 1944, Quote: "I have seen DREAM CASTLE and am sold on it 100%. Every spike I think was a showflower. Every floret was placed right and it made wonderful spikes in every way. No one can adequately describe its beauty and then to be able to cut one spike after another, each one a show spike. You almost wonder if they might be having a contest among themselves, in their own quiet way, to see which one could be the very best one. YES SIR! I'm sold on Dream Castle and as soon as I can get enough stock, I'm throwing out a lot of those so-called 'world beaters.'"

Available small bulbs already sold out.

	Large	Medium	Bulblets
1.....	\$.75	\$.50	10 for \$.75
10.....	6.00	4.00	100 for 6.00

Bulblets sold at 10 or 100 rate.

Mellowglow (1942)

An exquisite pastel creamy buff. One of the finest florist's flowers and excellent for fine make up work. Produces medium height spikes with good flower heads holding 6 to 8 florets open. Good propagator. Midseason bloomer. Has been awarded a FIRST CLASS CERTIFICATE CHAMPION SEEDLING AWARD and AMERICAN HOME ACHIEVEMENT MEDAL.

	Large	Medium	Small	Bulblets
1.....	\$.20	\$.15	\$.10	10 for \$.20
10.....	1.60	1.20	.80	100 for 1.20
100.....	12.80	9.60	6.40	1000 for 10.00

Mercury

Clean, mellow non-flecking vermillion red. Can make thrilling spikes, in fact at the National Show it was awarded the AMERICAN HOME ACHIEVEMENT MEDAL and was GRAND CHAMPION SPIKE of the show. A seedling of Picardy and Com. Koehl and has the good and bad habits of Picardy. Is a good propagator and mid-season bloomer. Large informal type. Stock is now in better supply and the price is down. Commercial growers and florists will find this a good color. Was good in in Florida last winter. Invest in Mercury stock and bulblets now.

	Large	Medium	Small	Bulblets
1.....	\$.50	\$.35	\$.20	10 for \$.50
10.....	4.00	2.80	1.60	100 for 4.00
100.....	12.80	1000 for 32.00

Rio Rita

Ruffled large formal exhibition orange, now generally regarded as a top notch variety. Can make a magnificent show spike and has been awarded the Butler Trophy, an Award of Merit by the Maryland Trial Grounds, Best Recent Introduction, NEGS Boston, 1943, NEGS Seedling Award etc.

Rio Rita belongs in every fine collection and is a must have for those who want to win on the show table.

Under date of Oct. 28, 1944, Dr. Geo. F. Etling, M. D., Rome, N. Y., wrote: I am pleased to concur with all that has been said about Rio Rita. It sure is tops in the orange class.

Wm. C. Manderbach, Laureldale, Pa., Oct. 10, 1944, wrote: "This spring I purchased 5 med. Rio Rita and 5 med. Stoplight. I want to take this opportunity to tell you that I am discarding all my other orange glads after seeing Rio Rita. Tall spikes, large flowers, simply gorgeous and did not wilt in the hottest sun and opened seven.

I can say as much for Stoplight. Both perfect commercial or show varieties. My friend, Walter McVaugh grows around twenty thousand bulbs and 300 varieties and when he saw Rio Rita he exclaimed 'Boy'oh Boy! what an orange.' "

	Large	Medium	Small	Bulblets
1.....	\$.35	\$.25	\$.15	10 for \$.35
10.....	2.80	2.00	1.20	100 for 2.50
				1000 for 18.00

Chocolate Cream

Rich Chocolate blending to a large pure cream white throat. Blends well with light shades. Medium informal type. Early midseason bloomer. This is a lovely color combination and has made friends. If you try this I think you will like it.
5 large for 75c. 5 med. for 50c.

Blaze

As the name implies this is a pure intense scarlet red. The spikes are willowy and never crook. Opens 5-6 plain petaled florets on long flower head. Blooms early midseason. Is a very heavy propagator. The Maryland Trial Gardens awarded it an AWARD OF MERIT.

	Large	Medium	Small	Bulblets
10.....	\$.80	\$.60	\$.40	100 for \$.50
				1000 for 2.50

Dixie Belle

Small flowered ruffled orange. Is just the type glad for table and home decoration. These small flowered glads are becoming more popular every year. This is one of the most brilliant small glads.

	Large	Medium	Small	Bulblets
10.....	\$.60	\$.45	\$.30	100 for \$.50

Minnewashta

This large informal orange is one of the best all around growers and producers of good spikes. If you want a good light orange self for late flowers, grow this one. Makes large healthy bulbs and bulblets. Strong straight plants, good flower heads and 5 inch flowers.

COMMENDATION AWARD from MARYLAND TRIAL GROUNDS, also from LEGION TRIAL GROUNDS. Found fusarium resistant by the Michigan State College, Department of Botany.

	Large	Medium	Small	Bulblets
10.....	\$.80	\$.60	\$.40	100 for \$.80
100.....	6.40	4.80	3.20	1000 for 6.40

Seedlings Under Number

- 36148 Tall straight deep red. Large bloom.
- 354TR Beautiful shade light red with a fine throat. Artistic shape florets.
- 3671 Non flecking rose, white throat.
- 3433X Large light rose. A husky glad, color similar to Rosa Von Lima.
- 3452A Seedling of Picardy and Marmora. Rosy pink with peppered throat mark.
- 3379 Tall red. Lower florets double.
- 3668A Excellent performing light salmon red. Good spike.
- LARGE OR MEDIUM BULBS....25c, 10 of a variety for \$2.00.
- 1 of each number, 7 varieties.....\$1.50
- 3 of each number, 7 varieties.....\$4.50

Treasure Chest Collection

Composed of good standard varieties, including some high priced varieties of which I might have a surplus, plus advanced seedlings from the test garden of which I might have more bulbs than I need for further test. This is a good collection and would cost many times more if purchased under separate label.

100 Large Bulbs	\$4.00
50 Large Bulbs	2.00
100 Medium Bulbs	3.00
50 Medium Bulbs	1.50

Under date of Oct. 3, 1944, Mr. Art Harms, Isle, Minn., who grew a TREASURE CHEST COLLECTION in 1944, wrote:

"The glads were just beyond description. They are still going strong. Some flowers measure 7 inches across. Have been taking some to church for the altar. People around here have never seen such a variety of color and splendor. Many thanks for sending us such a fine collection."

"Had we exhibited at the State Fair, would have left you in the cold."

Please Note—IMPORTANT!

Some standard varieties may be sold out early.

PLEASE INDICATE A FEW SUBSTITUTES TO AVOID extra correspondence.

You will get your first choice if the variety is still available.

Bulbs priced by the single, five or ten rate are shipped prepaid in U. S. A.

Bulbs priced at the hundred rate are shipped collect.

This includes TREASURE CHEST COLLECTIONS.

Standard Varieties

AUTUMN GOLD, beautiful deep yellow, L 15c. BURMA, first class large ruffled deep rose red, L \$1.50, bts. 10 for 75c. BLUE BEAUTY, L 2-15c, med. 3-15c. CORONA one of the best, cream white edged light rose, L 2-25c, bts. 100 for 50c. COLONIAL MAID, tall straight light lavender, L 2-15c. CONVOY, large tall first class purple, L 60c, bts. 10 for 40c. CAMROSE, clean light pink, L 2-15c. DR. WHITELY, large golden apricot, L 50c, bts. 10 for 40c. ELIZABETH THE QUEEN, new, exquisite large ruffled lavender, L 45c, bts. 50 for \$1.25. GUERDON, glossy fine rose red, L 10c. LADY JANE, very good cream, L 20. LEGEND, excellent tall light pink, L 25c. MOTHER KADEL, new very bright yellow, L 20c. MOLTEN COPPER, L 10c. PARNASSUS, big round purple, 2-15c, small 5-15c, bts. 100 for 60c. SILVER SWORD, new ruffled early white, L 20c, bts. 10 for 20c. VISTA BONITA, very large rich pink, L 10c, med. 2-15c. VULCAN, large bright purple L 40c, med. 25c. WHITE GOLD, large early cream, med. 20c, bts. 100-\$1.50. FLORA FARMER pink white throat L 10c.

FOLLOWING VARIETIES are priced 5 of a kind and size at: 5 large for 30c, 5 medium for 25c. Large will be 1¼" and up, except in a few cases some 1" may be included of varieties where the regular price is higher than listed.

ARTHUSA, ruffled creamy tan. AFLAME, tall rose scarlet. AMRITA, ruffled buff. BLACK OPAL, dark red. BARCAROLLE, orange. BLACK PRINCE, red. CAMELIA, light pink with red mark. DARLENE, apricot with small red mark. GOLDEN LANCER, pinnard yellow. ETHEL CAVE COLE, large light pink. GERTRUDE SWENSEN, tall, 8 open lavender. HINDENBURG'S MEMORY, red. JASMINE, yellow. KING LEAR, beautiful ruffled large purple. LUCIFER, crimson orange. LADY LOVE, early bright rose salmon. LEONA, late rose red. MAID OF ORLEANS, best all around white. MARGARET BEATON, popular blotched white. MYRNA, popular ruffled creamy white. MISS NEW ZEALAND, giant pink. PARADISE, fine standard apricot. PEGGY LOU, warm rosy pink. REWI FALLU, large rich red. ROYAL PURPLE, plum purple. ROSA VON LIMA, early light rose pink. RUFFLED BEAUTY, large ruffled yellow. RED SPIRE, red. SNOW PRINCESS, white. SHIRLEY TEMPLE, cream. VAGABOND PRINCE, fine garnet brown, red mark. VELA, red.

Nora, Ill., Apr. 13th, 1944

"I received your shipment of my order for corms. I sat down and inspected them at once. Please allow me to say that I never received so fine a consignment of gladiolus bulbs in my life. I'm glad to find a dealer who tries to keep his stock clean and has standards in his business dealings. I have no reason to suspect that I was given preferential treatment for mine was but a small, run-of-the-mill order. I'm sending you a second order."

Sincerely yours,
M. C. Blair

★ ★

Boston, Mass., Apr. 24th, 1944

"Bulbs received O. K. Thanks for the generous overcount and extras. Tried bulbs from six different advertisers and wish to tell you your stock was by far the best looking and **cleanest** of the lots. My daughter thought each one must have been washed and dried separately."

Sincerely,
O. R. Rietchlin

★ ★

Mt. Sterling, Ill., Apr. 21, 1944

"Say the bulbs are fine, fat and look good enough to eat. Thanks for the extras."

L. L. Clarke

★ ★

Scranton, Iowa, Apr. 3, 1944

"We appreciate very much the way you handled our glad order. Thank you for the nice clean bulbs, oversize and overcount and extras. We can recommend you to our friends and shall remember you when we want more bulbs."

D. L. Hoyt

★ ★

Breesport, N. Y., Apr. 10, 1944

"Splendid bulbs received in good condition. Thanks a lot for generous over sizing and extras."

John S. B. Moss

★ ★

Madera, California, 3-15-44

"Bulbs arrived O. K. Wonderfully fine! How do you do it."
Mrs. Geo. M. Mickel

★ ★

Franklin Grove, Ill., March 9th, 1944

"Just a line to tell you I received the order of bulbs in fine shape and am highly pleased with the excellent bulbs."

E. J. Wagner

★ ★

Cuyahoga Falls, O., March 7th, 1944

"Rec'd my shipment of galadiolus bulbs yesterday. Delighted? Definitely."
H. E. Bietz

★ ★

Waterloo, Iowa, 3-6-44

"Recd. glad bulbs in fine condition. I was both surprised and most pleased with the quality."

C. R. Poyner

Gladious Culture

Gladious bulbs must be stored so air can circulate among them, therefore when your shipment of bulbs arrives, open the bags to allow air to get to them and if not ready to plant store in cool basement.

Select a planting plot as far from trees and buildings as possible. Trees draw moisture and buildings reflect heat.

Prepare your glad bed well. Spade deep and add plenty decayed cow manure if you can get it, otherwise use a complete artificial fertilizer such as Vigoro. Dig a trench 7 inches deep and apply a heavy dusting of Vigoro or similar fertilizer in the bottom of the trench. Now cover this with two inches of soil, upon which plant your bulbs. This will bring the bulbs 5" below the level. If you want to grow show spikes space the bulbs 7 to 10 inches, however, you can plant closer if you must, but glads need root room to develop good spikes.

You cannot expect to grow first class spikes without sufficient water. It usually rains enough during the first part of the growing season but glads usually need extra water during August. A mere sprinkling is harmful, as it draws the roots to the hot surface. Soak them down deep once a week. Keep the ground moist way down until the flower is cut.

Glads are primarily cutflowers. Cut when first bloom opens and develop indoors. You can enjoy the spike a long time because a good variety will open every bud to the tip, in water. Leave 4 leaves on the plant to develop the bulb for next year.

Thrip is the main insect pest. Thrip is a tiny insect, a mere speck, which sucks the life juice from the tender flower spike before it emerges from the plant. The result is a poor spike, or one whose buds fail to open properly, or with mottled injured bloom.

Fortunately in cold climates thrip do not overwinter outdoors. If thrip are present at digging time, there is danger of carrying them into storage with the bulbs and if the storage is somewhat warm thrip will overwinter on the bulbs, therefore if you have bulbs on hand or just bought them, disinfect every bulb before planting. We soak every bulb we plant in a solution made by dissolving 1 oz. Bichloride of Mercury in 7 gals. of water, soaking them 18 hrs., keeping temp. of solution 60 or over. This dip kills thrip and their eggs, also certain bacteria.

Since all people do not kill thrip on their bulbs before planting, you may still get thrip from other gardens. To be on the safe side, start spraying the plants when 4-6 inches high and every week thereafter up to blooming time. If rain washes off the spray you must repeat.

A standard formula for spray is: Dissolve 1 oz. tartar emetic and $\frac{1}{2}$ lb. brown sugar in 3 gals. water. Cover entire plant with fine spray, not enough to run off. All this sounds complicated but is easier than it sounds. OCTOBER is the usual bulb digging month. Cut the tops off close to the bulb. Dry in shallow boxes or screen bottom trays until dry enough to remove old bulb and roots. Then store in screen bottom trays or shallow boxes in coolest place you have but they must not freeze. Temperatures of 34 to 40 over winter are ideal, this temp. will discourage thrip in storage. If temperatures in storage are warm, sprinkle 1 oz. Napthalene flakes per 100 bulbs in the trays or boxes but DO NOT LEAVE AMONG THE BULBS LONGER THAN JAN. 1, as around that time root nodules start forming and napthalene is injurious to these root nodules.

Bichloride of Mercury is Poison, use wood or crock container for dip. Tartar Emetic is also poison.

FROM

E. H. LINS

COLOGNE, MINN.



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GLAD

MESSAGE

FOR

MERCURY